

WHAT IS CLAIMED IS:

1 1. A bright surface structure formed on a member made from a metal or a
2 resin, said structure comprising:

3 (a) a resin film coated on said member; and

4 (b) a thin metal film formed on said resin film, said thin metal film being
5 made from a material selected from the group consisting of stainless steel, a
6 titanium alloy and a nickel alloy, wherein said metal film has a smooth surface.

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2 2. A structure according to claim 1, further comprising:

3 (c) a clear protective film coated on said thin metal film.

1 3. A bright surface structure formed on a member made from a metal or a
2 resin, said structure comprising:

3 (a) a resin film coated on said member;

4 (b') a thin metal film formed on said resin film, said thin metal film being
5 made from a material selected from the group consisting of stainless steel, a
6 titanium alloy, a nickel alloy, aluminum, titanium and chromium, wherein said
7 metal film has a smooth surface, and

8 (c') a clear colored protective film coated on said thin metal film.

1 4. A structure according to any one of claims 1, 2 and 3, wherein said
2 material is austenitic stainless steel.

1 5. A structure according to any one of claims 1, 2 and 3, wherein said

2 material is a titanium alloy containing 20-80% by weight of titanium.

1 6. A structure according to any one of claims 1, 2 and 3, wherein said
2 material is a titanium alloy containing 20-80% by weight of aluminum.

1 7. A structure according to any one of claims 1, 2 and 3, wherein said
2 material is a nickel alloy containing 30-80% by weight of nickel.

1 8. A structure according to any one of claims 1, 2 and 3, wherein said
2 material is a nickel alloy containing 15-25% by weight of chromium.

1 9. A structure according to any one of claims 1, 2 and 3, wherein said
2 thin metal film is made from stainless steel or a titanium alloy and has a thickness
3 of 0.03-1.0 μ m.

1 10. A structure according to any one of claims 1, 2 and 3, wherein said
2 thin metal film is made from nickel alloy and has a thickness of 0.03-0.5 μ m.

1 11. A structure according to claim 2, wherein said clear protective film
2 has a thickness of 5-20 μ m.

1 12. A structure according to claim 3, wherein said clear colored protective
2 film has a thickness of 20-40 μ m.

1 13. A structure according to claim 3, wherein said clear colored protective

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2 film is made from clear resin comprising a pigment or a dye.

1 14. A structure according to claim 13, wherein said clear resin is selected
2 from acryl-based, urethan-based or epoxy-based resins.

1 15. A structure according to claim 13, wherein said pigment is selected
2 from carbon-based, lead chromate-based, iron(II) ferrocyanide-based,
3 cobalt-based, or chromium oxide-based pigments.

1 16. A structure according to claim 13, wherein said pigment is selected
2 from thren-based, quinacrine staining-based, isoindolinone-based, or metal
3 complex pigments.

1 17. A structure according to claim 13, wherein said dye is selected from
2 an acid dye, a mordant dye, a basic dye, a disperse dye, an edible dye, a direct
3 dye or a sulphur dye.

1 18. A structure according to claim 1, wherein said member made from a
2 metal is an aluminum wheel for an automobile.

1 19. A structure according to claim 1, wherein said member made from a
2 resin is a front grille, a garnish, or an emblem of an automobile.

1 20. A method for manufacturing a bright surface structure formed on a
member made from a metal or a resin, said method comprising:

3 (a) coating a resin film on said member such that said resin film has a
4 smooth surface;

5 (b) forming a thin metal film on said resin film, said thin metal film being
6 made from a material selected from the group consisting of stainless steel, a
7 titanium alloy and a nickel alloy, wherein said metal film has a smooth surface.

1 21. A method according to claim 20, further comprising:

2 (c) coating a clear protective film on said metal film.

1 22. A method for manufacturing a bright surface structure formed on a
2 member made from a metal or a resin, said method comprising:

3 (a) coating a resin film on said member such that said resin film has a
4 smooth surface;

5 (b') forming a thin metal film on said resin film, said thin metal film being
6 made from material selected from the group consisting of stainless steel, a
7 titanium alloy and a nickel alloy, aluminum, titanium and chromium, wherein said
8 metal film has a smooth surface; and

9 (c') coating a clear colored protective film on said thin metal film.

1 23. A method according to any one of claims 20, 21 and 22, wherein said
2 resin film is coated by powder coating.

1 24. A method according to any one of claims 20, 21 and 22, wherein said
2 material is austenitic stainless steel.

1 25. A method according to any one of claims 20, 21 and 22, wherein said
2 material is a titanium alloy containing 20-80% by weight of titanium.

1 26. A method according to any one of claims 20, 21 and 22, wherein said
2 material is a titanium alloy containing 20-80% by weight of aluminum.

1 27. A method according to any one of claims 20, 21 and 22, wherein said
2 material is a nickel alloy containing 30-80% by weight of nickel.

1 28. A method according to any one of claims 20, 21 and 22, wherein said
2 material is a nickel alloy containing 15-25% by weight of chromium.

1 29. A method according to any one of claims 20, 21 and 22, wherein said
2 thin metal film is formed by any one of cathode arc-type ion plating and
3 sputtering.

1 30. A method according to any one of claims 20, 21 and 22, wherein said
2 thin metal film is made from stainless steel or a titanium alloy and has a thickness
3 of 0.03-1.0 μ m.

1 31. A method according to any one of claims 20, 21 and 22, wherein said
2 thin metal film is made from a nickel alloy and has a thickness of 0.03-0.5 μ m.

1 32. A method according to claim 21, wherein said clear protective film
2 has a thickness of 5-20 μ m.

1 33. A method according to claim 22, wherein said clear colored protective
2 film has a thickness of 20-40 μ m.

1 34. A method according to claim 22, wherein said clear colored protective
2 film is made from a clear resin comprising a pigment or a dye.

1 35. A method according to claim 34, wherein said clear resin is selected
2 from acryl-based, urethan-based or epoxy-based resins.

1 36. A method according to claim 34, wherein said pigment is selected
2 from carbon-based, lead chromate-based, iron(II) ferrocyanide-based,
3 cobalt-based, or chromium oxide-based pigments.

1 37. A method according to claim 34, wherein said pigment is selected
2 from thren-based, quinacrine staining-based, isoindolinone-based, or metal
3 complex pigments.

1 38. A method according to claim 34, wherein said dye is selected from
2 an acid dye, a mordant dye, a basic dye, a disperse dye, an edible dye, a direct
3 dye or a sulphur dye.